UNCLASSIFIED FRECESSING CATE--03JUL7C TITLE--PEACTION FO TETRACALCIUM ALUMINOFERRATE WAIH SOCIUM METASILICATE IN A SCOILM CHROMATE SOLUTION -U-AUTHOR--RYABIN, V.A., MUKASHEVA, G., MIRCLYUBOV, B.V.

CCUNTRY OF INFO--USSR

SCURCE-ZH. PRIKL. KHIM. (LENINGRAE) 1970, 43(1), 32-5

DATE PUBLISHEE ----- 7C

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS-ACLECUS SCLUTICA, CHEMICAL SEPARATION, CHROMATE, SILICATE, ALLMINUM COMPOUNC, FERRITE, SODIUM COMPOUND, HYDROLYSIS

CENTREL PARKING-NE RESTRICTIONS

PROXY REEL/FRAME--1978/1200

STEP NC+-UR/CORC/70/043/001/0032/0035

CIPC ACCESSION NO--APCC46123

CACEASSTETEE

Acc. Nr. Appo46123 Abstracting Service: 5/10 Ref. Code CHEMICAL ABST.

92460n Reaction of tetracalcium aluminoferrite with sodium metasilicate in a sodium chromate solution. Mirolyubov. B. V.: Ryabin. V. A.; Mukasheya. G. (Ural. Nauch. Issled. Khim. Inst., Sverdlovsk. USSR). Zh. Prikl. Khim. (Leningrad) 1970, 43(1), 32-5 (Russ). When chromate is leached from melts by water or Na₂CrO₄ solns., insol. hydrated Ca chromate-aluminate (I) forms because of hydrolysis of tetracalcium aluminoferrite (II). Na₂SiO₂ (≥1.5 g·l. SiO₂ in soln.) prevents the formation of I by słowing the hydrolysis of II. Most of the Na₂SiO₃ remains in soln. The Na₂SiO₃ must be present in the leach solns. before leaching begins; it has no effect on chromate leaching after I has formed. Mary Frances Richardson •

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

UNCLASSIFIED PROCESSING DATE--020CT70

TITLE--THE CONTENT OF AMMONIUM GLUTAMINE AND UREA IN THE CEREBRAL TISSUES

OF SUSLIKS (CITELLUS PYGMEUS PALLAS) IN A STATE OF HIBERNATION -U
AUTHOR-(02)-EMIRBEROV, E.Z., MUKALLOV, M.I.

COUNTRY OF INFO--USSR

SOURCE-BYULLETEN' EKSPERIMENTAL'NOY BIOLOGII I MEDITSINY, 1970, VOL 69, NR 4, PP 64-66
DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--UREA, BRAIN, HIBERNATION, EXPERIMENT ANIMAL, CEREBELLUM

CENTRUL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/1583

STEP NO--UR/0219/70/069/004/0064/0065

CIRC ACCESSION NO--APO106329

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UDC: 621.762.5(088.8)

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MUKHA, I. M., DOVBISHCHUK, M. A., KAL'NENKO, B. I., BELILOVETS, A. D.

"Method of Sintering of Metal Ceramic Products"

USSR Author's Certificate Number 353793, Filed 10/02/70, Published 30/10/72 (Translated from Referativnyy Zhurnal Metallurgiya, No 8, 1973, Abstract No 8G403).

Translation: A method is suggested for sintering metal ceramic products, including heating in a controlled gas atmosphere. In order to reduce the sintering cycle and increase product quality, they are heated by a glowing gas discharge.

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- 37 -

MUKHA. I. M., DOVBISHCHUK, M. N., BELILOVETS, A. D., VYSHNEVSKIY, V. S., Kiev

"Strength of Welded Joints of VK Hard Alloys as a Function of the Thickness of the Interstitial Layer and the Technological Process of Applying It"

Kishinev, Elektronnaya obrabotka materialov, No 5 (47), 1972, pp 26-30

Abstract: A study was made of the technological procedures for applying Ni and Co interstitial layers for diffusion welding of VK type hard alloys in glow discharge and and also the effect of the thickness of the interstitial layers on the strength of the welded joint. Interstitial layers made of powdered Ni and Co can be used for surface ground parts made of hard alloys. Interstitial layers in the form of thin films obtained by thermal evaporation in a vacuum can be used for welding parts of complex surface curvature. The optimal film thickness is 4,000 to 8,000 Å. The variation in strength of the welded joints of VK6-VK16 hard alloys is plotted as a function of the thickness of the Co and Ni interstitital layers from 2,000 to 40,000 A.

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CIA-RDP86-00513R002202120012-9"

APPROVED FOR RELEASE: 07/20/2001

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VDC 621.791.012

SAMSONOV, G. V., MUKHA, I. M., DOVBISHCHUK, M. N., and KAL'NENKO, B. I., Kiev

"The Effect of Heating by Glow Discharge on the Physico-Chemical Surface Condition of Solid Alloys"

Kishinev, Elektronnaya Obrabotka Materialov, No 5 (35), 1970, pp 32-38

Abstract: The effect of ionic heating on the physico-mechanical surface properties of solid alloys of the type VK (VK2, VK6, VK8, VK15, and VK20) and TK (T5K10, T15K6, and T30K4) and tungsten and titanium carbides during diffusion welding in a glow discharge is demonstrated. An analysis is presented of the variation of the chemical composition of surface layers as a function of the energy condition and the electron structure of the heated materials.

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TITLE--THEORY AND TECHNOLOGY OF PRODUCING THE MATERIALS OF ELECTRODE TOOLS FOR ELECTROSION MACHINING. 4. STRUCTURAL AND PHASE COMPONENTS OF AUTHOR--SANSONOV. G.V., MUKHA, I.M., GLOBA, L.V.

COUNTRY OF INFO--USSR

SOURCE--- POROSH. MET. 1970, 10(1), 71-5

DATE PUBLISHED----70

SUBJECT AREAS -- MATERIALS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--ELECTRON MICROSCOPY, ELECTROEROSION MACHINE TOOL, TOOL STEEL, CRYSTAL STRUCTURE, TUNGSTEN CARBIDE, COBALT, COPPER/IU/VK ALLOY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1989/0588

STEP NO--UR/0226/70/010/001/0071/0075

CIRC ACCESSION NO--APO107185

UNCLASSIFIFO

UNCLASSIFIED 2/2 025 CIRC ACCESSION NO--APO107185 ABSTRACT. THE STRUCTURES OF THE COMPNS. WERE ABSTRACT/EXTRACT--(,U) GP-0-STUDIED, FOR THE BASES OF WHICH SERVED THE WASTES OF THE VK TYPE SOLID ALLOYS CONTG. CU. NI, AND BN ADDNS. AN ELECTRON MICROSCOPE AT MAGNIFICATIONS OF 100-1150X WAS USED FOR THIS STUDY. MICROSECTIONS WERE EXAMD. BOTH BEFORE AND AFTER ETCHING. THE NO. OF CU INCLUSIONS IN WC.CO.CU COMPNS. AND THEIR SIZES INCREASE WITH THEIR INCREASING CONTENT IN THE ALLOYS. THE HIGH EROSION STABILITY OF WC.CO.CU. BN COMPNS. CAN BE EXPLAINED BY THE FORMATION OF A PECULIAR HONEYCOMBED STRUCTURE. IN WHICH THE LOW MELTING CU AND CO ARE ENCLOSED IN THE REFRACTORY BN CELLS. THE HIGH EROSION STABILITY OF THE MATERIAL MADE OF CU WITH ADDN. OF 2-3 WT. PERCENT BY IS GENERALLY ASSOCD. ALSO WITH THE EXTINGUISHING OF THE ARC BY THE VAPORS OF THE EASILY DISSOCS. BN. IT IS OBVIOUS THAT THIS TAKES PLACE ALSO WHEN SUCH MATERIAL IS EMPLOYED FOR ELECTRODE TOOLS.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

USSR

UDC 539.12.08:621.039.564

MIKHACHEV, B. V., NEVEROV, V. A., and SAMOYLOV, P. S.

"Measuring Gamma-Radiation Fields in Reactor Channels and the Assembly of Worked-Out Fuel Elements With the Help of an Instrument for Measuring the Exposure Dose Rate on the Base of the Ionization Chambur"

Tr. Soyuz. NII Priborostr. [Works of the All-Union Scientific Research Institute of Instrument Making], 1972, No 17, Pp 56-62 (from Referativnyy Zhurnal, No 8, Aug 72. 50. Yadernyye Reaktory. Single Issue. Abstract No 8.50.151)

IC to thermal neutrons, measured on the SM-2 nuclear reactor, equals 1/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

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MIKHACHEV, B. V.	., et al., Tr. Soyuz. I	NII Priborostr.	, 1972, No 17, 1	pp 56-62
3·10-19 a	• The sensition	ivities to J-re	idiation with 1	.25 Mev
energy are, for	IC of M- and B-types,	(1.36±0.11).10	7 and (1.56±0.0	08)•10-7
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dose rate P& 0	of & -radiation in char	nnels of the SM	-2 nuclear react	uOI.• n the
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measured in the reactor.	No 16 channel center a	at instantaneou	s Bunc-down of	olic lingresi

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UDC 539.122.074

MUKHACHEV, B. V., PUSHKAREV, A. V., SAMOYLOV, P. S.

"Vacuum Radiation Elements for Measurement of High Intensity γ Radiation Exposure Dose"

Tr. Soyuz. NII Priborostr. [Works of Union Scientific Research Institute for Instrument Building], 1972, No 17, pp 65-71, (Translated from Referativnyy Zhurnal, Metrologiya i Izmeritel'naya Tekhnika, No 7, 1972, Abstract No 7.32.1403).

Translation: The design, calibration and results of testing of vacuum radiation γ elements for measurements of high-intensity γ radiation exposure doses, requiring no external power supplies, are described. The diameter of the sensing portion of the γ element is 6 mm, length 150 mm. It is shown that the sensitivity of γ elements is higher, the greater the difference in atomic numbers of the emitter and (stainless steel) collector materials. The sensitivity of the γ elements with emitters of zirconium and tantalum are $1.5 \cdot 10^{-13}$ and $6 \cdot 10^{-13}$ A/R/s respectively. Results are presented from tests of γ elements in the SM-2 reactor. It is shown that γ elements can be used between 10^3 and 10^6 R/s at temperatures

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USSR

MUKHACHEV, B. V., et al., Tr. Soyuz. NII Priborostr., 1972, No 17, pp 63-71

of up to 500°C. The output signals of the γ elements are proportional to the reactor power and are independent of temperature, while the resistance of the insulation of the γ element under actual operation conditions is at least 10^7 ohm.

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UDC: 621.165.175.001.5

METELIN, Yu. P., MUKHACHEY, G. As.

"Some Results of an Experimental Study of the Process of Condensation of Water Vapor in a Laval Nozzle"

Tr. Vses. nauchno-tekhn. konferentsii po termodinamike. Leningr. tekhnol. in-t kholodil'n. prom-sti (Works of the All-Union Scientific and Technical Conference on Thermodynamics. Leningrad Technological Institute of the Refrigeration Industry), Leningrad, 1970, pp 155-160 (from EZh-Turbostroyeniye, No 8, Aug 70, Abstract No 8.49.23)

Translation: The kinetics of condensation of superheated steam is studied on fourteen flat transparent models of a Laval nozzle of various profiles. Visual observation and photography revealed the qualitative flow pattern, and gave a basis for explaining the blurred boundaries for transition to the region of condensation, which depend on the input parameters of the flow and the nozzle profile. Measurements of the static pressure along the channel made it possible to determine the amount of supercooling (supersaturation) of the steam, and to estimate the effect of condensation on the flow parameters in the form of characteristic curves for the variation in

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METELIN, Yu. P., MUKHACHEV, G. A., Tr. Vses. nauchno-tekhn. konferentsii po termodinamike. Leningr. tekhnol. in-t kholodil'n. prom-sti, Leningrad, 1970, pp 155-160

static pressure, and the dimensions and location of the transition zone with respect to the length of the nozzle. Empirical relationships are proposed for determining the location of the zone of condensation and the mass fraction of moisture as time changes. Optical measurements (determination of the coefficient of scattering of the two-phase medium) were used to find the change in dimensions and the concentration of drops lengthwise of the nozzle, which agrees satisfactorily with the classical liquid-drop theory of nucleation. Two illustrations, bibliography of six titles. L. F. Kallistova.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

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METELIN, YU. P., MUKHACHEV GOLA.

"Some Results of an Experimental Study of the Process of Water Vapor Condensation in a Supersonic Nozzle"

Tr. Vses. nauchno-tekhn. konferentsii po termodinamike. Leningr. tekhnol. in-t kholodiln. prom-sti (Works of the All-Union Scientific and Technical Conference on Thermodynamics. Leningrad Technological Institute of the Refrigeration Industry), Leningrad, 1970, pp 155-160 (from RZh-Mekhanika, No 11, Nov 70, Abstract No 11B461)

Translation: Experimental studies of the kinetics of condensation of supercooled vapor were performed in Laval nozzles of different shape with flat transparent walls. The condensation process was investigated by three methods: visual observation and photography, measurement of the static pressure along the channel and by the optical method by means of which the dispersion coefficient of two-phase medium was measured. The curves for variation of the static pressure, drop size and mass fraction of moisture along the length of the nozzle are presented. It is noted that the beginning of condensation is characterized by the variation of the static pressure curve, and the moisture drop size and drop concentration 1/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

METELIN, YU. P., et al., Tr. Vses. nauchno-tekhn. konferentsii po termodinamike. Leningr. tekhnol. in-t kholodiln. prom-sti (Works of the All-Union Scientific and Technical Conference on Thermodynamics. Leningrad Technological Institute of the Refrigeration Industry), Leningrad, 1970,

essentially depend on the saturation state parameters. The results obtained (with respect to number of drops) agree satisfactorily with the classical drop theory of nucleation.

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USSR

UIC: 621.319.4-416

VOROB'YEV, G. A., MOTOSHKIN, V. V., MIKHACHEV, V. A., MIKHACHEVA, N. S.

"On the Mechanism of Breakdown of Thin-Film Capacitors at High Frequencies"

Moscow, Radiotekhnika i Elektronika, Vol 16, No 1, Jan 71, pp 210-211

Abstract: A preliminary investigation is made of the frequency dependence of the electric strength of thin-film capacitors. It is found that the breakdown voltage of thin-film capacitors remains constant up to a frequency of about 600 kHz. At higher frequencies, the puncture voltage drops sharply. The loss tangent decreases with increase in frequency in the 1-100 kHz. range.

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VIC: 621.319.4-416

VOROB'YEV, G. A., MOTOSHKIN, V. V., MUKHACHEV, V. A., MUKHACHEVA, N. S.

"On the Mechanism of Breakdown of Thin-Film Capacitors at High Frequencies"

Moscow, Radiotekhnika i Elektronika, Vol 16, No 1, Jan 71, pp 210-211

Abstract: A preliminary investigation is made of the frequency dependence of the electric strength of thin-film capacitors. It is found that the breakdown voltage of thin-film capacitors remains constant up to a frequency of about 600 kHz. At higher frequencies, the puncture voltage drops sharply. The loss tangent decreases with increase in frequency in the 1-100 kHz. range.

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UDC 547.241

MUKHACHEVA, O. A., NIKOLAYEVA, V. G., SHCHELKUNOVA, M. A., and RAZUMOV, A. I., Kazan' Chemical Technological Institute Imeni S. M. Kirov

"Studies in the Series of Phosphinic and Phosphinous Acid Derivatives. KCI. O-Alkyl- and O-Acyl- Derivatives of the Phosphorylated Hydroxamic Acids"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 6, Jun 73, pp 1240-1247

Abstract: Alkylation and acylation of the potassium salts of dialkyl (diacyl) phosphinylhydroxamic acids yields O-alkyl or O-acyl derivatives of the mother compounds. The structure of the compounds obtained was supported by IR spectral data. Possible reaction mechanisms have been discussed. A series of potassium, silver, cobalt, nickel, and copper salts of O-acyl derivatives of the phosphorylated hydroxamic acids has been synthesized.

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CIA-RDP86-00513R002202120012-9" **APPROVED FOR RELEASE: 07/20/2001**

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UDC 547.241

MUKHACHEVA, O. A., NIKOLAYEVA, V. G., and RAZUMOV, A. I., Kagan' Institute of Chemical Technology imeni S. N. Kirov

"Rearrangement of Diphenylphosphinylacetohydroxamic Acid"

Leningrad, Zhurnal Obshchey Khimii, Vol 41, No 8 Aug 71, pp 1873-1874

Abstract: Using diphenylphosphinylacetohydroxamic acid as an example, the authors studied the Lossen rearrangement, which is characteristic of acyl derivatives of hydroxamic acids. Benzoylation of potassium diphenylphosphinylacetohydroxamate gives benzoyl diphenylphosphinylacetohydroxamate, which on heating in an alkaline aqueous solution undergoes an intramolecular rearrangement with elimination of the carboxyl ion and the formation of an isocyanate. The latter gives N,N'-bis(diphenylphosphinylmethyl)urea in the presence of water. The rearrangement of diphenylphosphinylacetohydroxamic acid directly to the isocyanate was observed on heating with excess triethyl orthoformate. The final rearrangement products were N,N'-bis(diphenylphosphinylmethyl)urea and the ethyl ester of N-diphenylphosphinylmethylcarbamic acid.

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NIKOLAYEVA, V. G., ANISIMOVA, L. V., MUKHACHEVA, O. A., and RAZUMOV, A. I., Kazan' Chemical-Technological Institute Imeni S. M. Kirov

"Studies in the Series of Phosphinic and Phosphinous Acid Derivatives LXXXIX. Structures and Properties of Phosphorylated Hydroxamic Acids and Their Salts"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 5, May 73, pp 1013-1019

Abstract: A series of phosphorylated hydroxamic acids and salts was synthesized by a previously described method. Physical constants, IR, UV, and PMR data are reported for the new compounds. On the basis of spectral analysis it was shown that the solid phosphorylated hydroxamic acids and their salts are in the amide form $R_2P(=0)(CHX)_nC(=0)NHOH$.

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- 16 -

UDG 547,241

MUKHACHEVA, O. A., GOR'KOVA, S. A., NIKOIAYEVA, V. G., RAZUMOV, A. I., Kazan' Chemical-Technological Institute imeni S. M. Kirov, Kazan, Ministry of Higher and Secondary Specialized Education RSFSR

"Studies in the Series of Phosphinous and Phosphinic Acids. LXII. Phosphorylated Hydroxamic Acids"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 9, Sep 70, PP 2004-2009

Abstract: The following method was developed for synthesis of phosphorylated hydroxamic acids. Hydroxylamine hydrochloride was phosphorytated hydroxamic actus. Hydroxytamine hydrochioride was suspended in absolute methanol, and potassium methoxide was added with stirring. After removing the precipitated KCl, a methanol solution of ethyl ester of P-diethylphosphinylpropionic acid was added, followed by more potassium methoxide to keep the pH at 9-10. The reaction was carried out in dry nitrogen atmosphere. hrs some orystalline potassium salt of the p-diethylphosphinylpropionhydroxamic acid was obtained, the remaining product staying in solution. Next, the ion exchange resin KB-1 was added to the above mixture, which was allowed to stand for 6-7 hrs until the pH

MUKHACHEVA, O. A., et al, Zhurnal Obshchey Khimii, Vol 40, No 9, Sep 70, pp 2004-2009

became < 7. The resin was filtered off, most of the solvent evaporated, and the residue poured into ether, from which crystalline Adiethylphosphinylpropionohydroamic acid was obtained, m.p. 106-1070. Other analogues were obtained in a similar fashion. Their IR spectra showed bands at 1680-1665 and 1650-1640 cm-1 (C:0), (NH and OH). Introduction of the phosphoryl group did not change basic properties of hydroxamic acids. Biologically, they appeared as weak antidotes against phosphorus organic toxins. The authors thank L. A. CHEMODANOVA for taking the IR specta.

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UDC: 539.3

MUKHADZE, L. C., SEKHNIASHVILI, M. L.

"Calculating Three-Dimensional Suspension Systems of Minimum Volume"

V sb. Stroit. mekh. prostrenstven. konstruktsiy (Structural Mechanics of Three-Dimensional Constructions--collection of works), Tbilisi, "Metsni-yereba", 1972, pp 65-70 (from RZh-Mekhanika, No 9, Sep 72, Abstract No

Translation: The optimum configuration of the surface and contour of three-dimensional guying systems is selected. The expression for the volume of the surface and the contour is taken as the minimizing functional. Two forms of equilibrium of three-dimensional suspension systems are considered: under the effect of exclusively prestressing forces on the system, and when the prestressed surface is subjected to a calculated uniformly distributed load. Integrodifferential equations are derived which relate the static and physical-geometrical ratios of the problem, and also a functional of the volume expressed in terms of the maximum values of the forces acting in the surface with an orthogonal guy network, as well as in terms of the corresponding conditions acting in the contour.

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USSR

MUKHADZE, L. G., SEKHNIASHVILI, M. L., Stroit. mekh. prostrenstven. konstruktsiy, Tbilisi, "Metsniyereba", 1972, pp 65-70

For the special case where the configuration of the contour follows the direction of the coordinate axes, and consists itself of two girders of rectangular cross section, a system of resolving integrodifferential equations is found for the formulated problem. Yu. P. Kitov.

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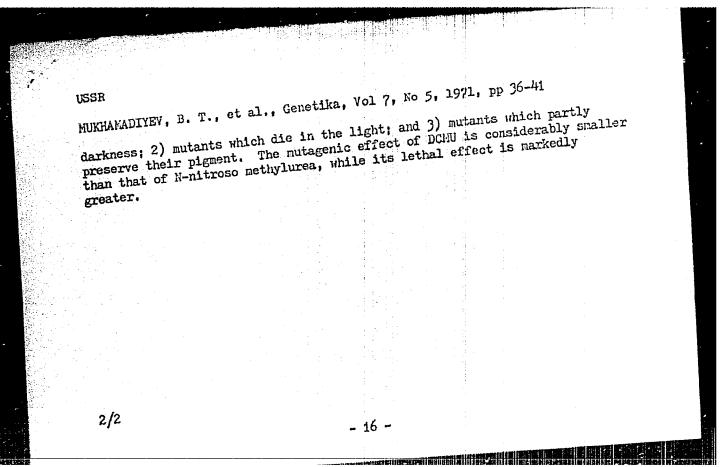
UDC 575.111/24.582.259

MUKHAMADIYEV, B. T., KVITKO, K. V., and ZALEKSKIY, O. V., Botanical Institute iment V. L. Romarov, Academy of Sciences, USSR Leningrad; Institute of the Physiology and Biophysics of Plants, Academy of Sciences Tadzhik SSR, Dushanbe; and Chair of Genetics and Selection, Leningrad State University

"Chlorella Mutants Resistant to the Photophosphorylation Inhibitor 3(3,4)-Dichlorophenyl-1,1-Dimethylurea (DCMU). II. Mutagenic Effects of DCMU on Different Strains"

Moscow, Genetika, Vol 7, No 5, 1971, pp 36-41

Abstract: In concentrations of 10-3 to 5x10-3 M, DCMU has both lethal and mutagenic effects on Chlorella strains of two different origins: Chlorella vulgaris original strain B and its more resistant mutant Bu; and Chlorella pyrenoidosa original strain 82 and its more resistant mutant Z2. Equal concentrations of DCMU inhibit the original strains to a much greater degree than the mutants. After Chlorella cells adapt to DCHU, its lethal effect becomes considerably smaller. Adaptation to DCMU does not eliminate its mutagenic effect in the above-mentioned concentrations; as a result, the resistant strains are more mutable. The nutations include: 1) nutants which restore their pigment to initial color in the light but lose it again in 1/2



UDC 517.917

MUKHAMADIYEV, E., Voronezh State University imeni Lenin Komsomol

"On the Invertibility of Differential Operators in a Space of Functions that are Continuous and Bounded on the Axis"

Moscow, Doklady Akademii Nauk SSSR, Vol 196, No 1, 1971, pp 47-49

Abstract: Given that C is a space of functions, continuous and bounded on $(-\infty, +\infty)$ with a value in the real Euclidean n-dimensional space \mathbb{R}^n with

 $|x(t)|_C = \sup_t |x(t)|,$

where $|\mathbf{x}|$ is the Euclidean norm of the element $\mathbf{x} \in \mathbb{R}$ and \mathbb{C}^1 denotes the space of functions $\mathbf{x}(t) \in \mathbb{C}$, for which the derivative $\mathbf{x}'(t) \in \mathbb{C}$ with norm $\|\mathbf{x}(t)\|_{C} := \|x(t)\|_{C} + \|x'(t)\|_{C}$. The author considers the differential operator

Lx(t) = x'(t) + A(t)x(t) in space C^1 , with a matrix function A(t) continuous and bounded with respect to the norm $|A| = \max_{t \in A} |ax|$ on the axis. Conditions are found under which the operator L has a continuous inverse or,

MUKHAMADIYEV, E., Doklady Akademii Nauk SSSR, Vol 196, No 1, 1971, pp 47-

what is the same thing, the differential equation

Lx(t) = f(t)

for each function $f(t) \in C$ has a unique solution $x*(t) \notin C^1$. The proof involves a periodic approximation on an interval with a length equal to double the period and a transition to integral equations.

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UDC 517.917

MUKHAMADIYEV, E., Voronezh State University imeni Lenin Komsomol

"On the Theory of Periodic Solutions of Systems of Ordinary Differential Equa-

Moscow, Doklady Akademii Nauk SSSR, Vol. 194, No. 3, 21 Sep 70, pp 510-513

Abstract: A system of ordinary differential equations

$$dx/dt = F(t, x) \tag{1}$$

is considered; where $x = \{x_1, \dots, x_n\}$ is a point of the n-dimensional space R^n ; the vector function F(t, x) is defined and continuous over the variables t, x in the region $(-\infty < t < \infty, x \in R^n)$; and the vector function is also wperiodic with respect to t. It is pointed out that the problem of the existence of wperiodic solutions of the system (1) is equivalent to the problem of the existence existence of zeros of the fully continuous vector field

$$\Phi x(t) = x(t) - Ax(t). \tag{2}$$

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MUKHAMADIYEV, E., Doklady Akademii nauk SSSR, Vol. 194, No. 3, 21 Sep 70,

This paper is concerned with calculating the rotation of a fully continuous vector field (2) for certain classes of systems of ordinary differential equations. A theorem is proved which makes it possible to reduce the calculation of the fully continuous vector field

$$\Phi_{1}x(t) = x(t) - x(\omega) - \int_{0}^{t} \{P[s, x(s)] + f[s, x(s)]\} ds$$

to a calculation of the rotation of the simpler vector field

$$\Phi_0 x(t) = x(t) - x(\omega) - \int_0^t P[s, x(s)] ds.$$

This theorem can also be used in standard form to prove the existence of second periodic solutions for the system

$$dx/dt = P(t, x) + f(t, x);$$

where the vector function P(t, x) is continuous over the variables t, x; is ω-periodic with respect to t; and is positive-homogeneous with respect to x of the order m > 0 $(P(t, \lambda x) = \lambda^m P(t, x)$ for $\lambda \ge 0$).

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UDC: 537.533

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ARIFOV, U. A., MUKHAMADIYEV, E. S., PARILIS, E. S., and PASYUK, A. S., Joint Institute of Nuclear Research, Dubna

"Identification of Multicharge Ions from the Electron Emissions They Cause"

Leningrad, Zhurnal Tekhnicheskey Fiziki, No 2, 1973, pp 375-379

Abstract: In the analysis of an ion beam with a mass analyzer the ions are divided in accordance with their mass/charge ratios. In such a beam, however, there are ion pairs of the same or similar ratio, thus giving rise to the problem of quantitatively identifying the ions making up these pairs. In an earlier paper one of the authors named above (Parilis, E. S., Reprint of the OIYaI, R7-335, Dubna, 1967) proposed a method for identifying such multicharge ions from the potential electron emission from metals they produce. The function of the present article is to explain briefly the mechanism of the electron emission and the theory behind the perimental research conducted by the LYAR OIYAI (Nuclear Reactions Laboratory of the Joint Institute of Nuclear Research) in Dubna.

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UDC: 537.533

ARIFOV, U. A., et al, Zhurnal Tekhnicheskoy Fiziki, No 2, 1973, pp 375-379

A diagram of the experimental equipment and curves for its results are presented. The authors express their gratitude to Academician G. N. Flerov and Ye. D. Vorob'yev for their support and to Yu. P. Tret'yakov and R. I. Ivannikov for their assistance.

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MUKHAMPETOV, D. D., Chair of Molecular Pharmacology and Radiobiology, Second Moscow Medical Institute imeni N. I. Pirogov

"The Immunodepressive Action of Poly-4-Vinylpiridine-Containing Alkylating Groups"

Alma-Ata, Zdravookhraneniye Kazakhstana, No 11, 1972, pp 39-40

Abstract: The immanodepressive effects of sarcolysin bound to poly-h-vinylpiridine by one alkylating group (K-19) and of the polymer without sarcolysin (K-23) were investigated on white nice immanized with a single intraperitoneal injection of sheep crythrocytes. Like sarcolysin, K-19 given in a dose of 1/h to 1/2 LD₅₀ 1 day prior to immunization inhibits production of hemolysins and hemagglutinins and reduces the weight of the thymus and spicen. In a dose of 1/8 LD₅₀, neither compound exerts any significant effects. However, the same doses of either agent given daily from the lat day prior to the 4th day after immunization are strongly immunodepressive. When given on the 4th and 2d day prior to immunization, the depressive effect of of and after immunization, they completely inhibit antibody production. If given in a dose 1/5 LD₅₀ 2 days after immunization, K-19 exerts a greater

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MUKHAMRETOV, D. D., Zdravookhraneniye Kazakhstana, No 11, 1972, pp 39-40

effect than sarcolysin. On the other hand, K-23 has no effect on either antibody formation of the thymus and spleen weight, even though it is toxic. When given according to a definite schedule, K-19 prolongs the survival of cutaneous allotransplants by several days more than sarcolysin. It is concluded that K-19 is a powerful immunodepressive agent.

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UDC 621.375.826.001

MUKHAMEDGALIYEVA, A. F., TATARENKOV, V. M., TITOV, A. N., USPENSKIY, A. V.

"Study of the Lamb Trough in the Determination of the Radiation Width of the Transition Line $3S_2-3P_4$ of the Ne²⁰ Atom"

Tr. VNII fiz.-tekhn. i radiotekhn. izmereniy (Works of the All-Union Scientific Research Institute of Physicotechnical and Radio Engineering Measurements), 1970, No. 3(33), pp 281-290 (from Referativnyy Zhurnal, Metrologiya i izmeritel'naya tekhnika, No 11, Nov 71, Abstract No 11.32.62)

Translation: The width and relative size of the Lamb trough $\lambda=3.39~\mu$ were studied as a function of the intensity of the saturating field on the gas pressure. It was shown that the relative size of the trough as a function of the field intensity has a maximum with a magnitude decreasing with an increase in the pressure. The radiation width of the $3S_2-3P_4$ transition of the Ne^{20} atcm (24 ± 6 MHz) and the broadening of the homogeneous line by pressure (150 ± 40 MHz/mm Hg) were determined. The shift in the maximum of the output power of the generator with an increase in pressure in an amplifier tube was measured and was 16 ± 2 MHz/mm Hg for isotopically pure Ne^{20} and 33 ± 3 MHz/mm Hg for a natural mixture of the isotopes. 5 ill., 8 ref.

- 132 -

USSR

MUKHAMEDKHANOVA, R. I.

"Estimate of the Convergence Rate and Exponential Rule in Critical Branching Random Process with Continuous Time"

Sluchayn. Protsessy i Stat. Vyvody [Random Processes and Statistical Conclusions -- Collection of Works], Tashkent, Fan Press, 1971, pp 42-45 (Translated from Referativnyy Zhurnal, Kibernetika, No 1, 1975, Abstract No 1 V122 by B. Sevast'yanov).

Translation: It is proven that in a critical branching process with continuous time and finite third moment, the residual time in the limit theorem has order $O(\ln^2 t/t)$, where t is time. This result was earlier established by S. V. Nagayev and R. Mukhamedkhanova for critical processes with discrete time (see RZhMat, 1966, 12V46).

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USSR

UDC 669.018.2-151.8:620.172

MUKHAMEDOV, A. A., and MAKSUDOV, SH. SH., Tashkent Polytechnic Institute

"Investigation of the Post-Recrystallization Strength of a Previously Superheated Steel"

Moscow, Izvestiya Vysshikh Uchebnykh Zavedeniy--Chernaya Metallurgiya, No 6, Jun 73, pp 97-100

Abstract: The inheritance of the structural characteristics of previously superheated St. 3 and 45 steels was investigated. Superheating temperatures were 850, 930, 1000, 1100, 1200, and 1260°C. Repeated accelerated heating of samples 5 mm in diameter in a lead bath with subsequent quenching leads to a change in tensile strength. Strength and physical width of x-ray diffraction lines change with the change of superheating temperature and, although the structure can be refined by tempering, the steels still inherit the structure caused by superheating. 3 figures, 1 table, 9 bibliographic references.

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Miscellaneous

USSR

UDC 620.186.5

MUKHAMEDOV, A. A., and MAKSUDOV, SH. SH., Tashkent Polytechnical Institute and Tashsel'mash

"X-Ray Study of Inheritance of Fine Structure of Preliminarily Superheated Steel After Recrystallization"

Tashkent, Izvestiya Akademii Nauk Uzbekskoy SSR, No 5, 1970, pp 53-55

Abstract: This work presents a study of the change in fine structure during recrystallization of types 45, 40Kh, and 30KhGT steels. The specimens were preliminarily heated to 850-1260°C for 20-25 min, then cooled in air (normalized). The normalized specimens were reheated at various rates and holding times (in a lead bath, holding time 5 min, in furnace atmosphere -- 20 min and 2 hr) with subsequent quenching in oil or water, heated to 30-50°. The hardened specimens were tempered at 200, 350, 450, 570, and to remove work-hardened layers, and x-ray diagrams were made using Fe, K \(\alpha\)-radiation. It was established that the process

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MUKHAMEDOV, A. A., and MAKSUDOV, SH. SH., Izvestiya Akademii Nauk Uzbekskoy, SSR, No 5, 1970, pp 53-55

of recrystallization is accompanied by inheritance of the fine structure due to the thermal stability of dislocation structures, which change significantly during tempering. This can lead to variations in mechanical properties.

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Miscellaneous

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UDC 620.186.5

MUKHAMEDOV. A. A., and MAKSUDOV, SH. SH., Tashkent Polytechnical Institute and Tashsel'mash

"X-Ray Study of Inheritance of Fine Structure of Preliminarily Superheated Steel After Recrystallization"

Tashkent, Izvestiya Akademii Nauk Uzbekskoy SSR, No 5, 1970, pp 53-55

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MUKHAMEDOV, A. A., and MAKSUDOV, SH. SH., Izvestiya Akademii Nauk Uzbekskoy, SSR, No 5, 1970, pp 53-55

of recrystallization is accompanied by inheritance of the fine structure due to the thermal stability of dislocation structures, which change significantly during tempering. This can lead to variations in mechanical properties.

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UDC: 620.186.5

MUKHAMEDOV, A. A. and MAKSUDOV, Sh. Sh.

"Inheritance of Fine Structures in Recrystallization and its of fect on the Durability of Steel"

Tashkent, <u>Izvestiya akademii nauk Uzbekskoy SSR -- Seriya tekhni-cheskikh nauk</u>, No. 4, 1970, pp 47-48

Abstract: The inheritance of a fine structure in the recrystallization of steel changes the durability of the steel. This article investigates the change in steels of the 40Kh and 30KhGT types, specimens of which were normalized at temperatures of 870-1200°. After cooling, the 40Kh and 30KhGT specimens were heated repeatedly up to 870° and 880° respectively for 20 minutes and then tempered in oil at 200° C for one hour. X-ray pictures were taken with a KROS-1 camera. Specimens examined for friction effects were tested on an MI-1 machine for rolling friction with slippage. The results establish the linearity of the steel durability with tempering as a function of the width of the X-ray line, i.e., of the dislocation density in the crystal lattice of the steel.

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Microbiology

USSR

SEREDIN, V. G., INZHEVATOVA, M. V., MIKHAMEDOV, S. M., RIVKUS, Yu. Z., and BYSTRYY, N. F., Uzbek Antiplague Station

"Testing Cholera Phage With a 'Stamp'"

Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 11, 1971, pp 75-77

Abstract: The "stamp" is a device to study a number of cholera vibrio strains at the same time. It consists of five aluminum plates connected by crosspieces. Each plate has five short pins whose distal ends are working surfaces to which phages are applied. The phages to be tested are diluted in test tubes to 10^{-4} and poured into special plates (0.5 to 0.5 ml of each dilution) containing wells arranged in 5 rows of 5 wells each corresponding to the number of pins on the "stamp." The "stamp" is immersed with the pins in alcohol in a Petri dish and heated over an alcohol lamp. It is then dipped into the wells with phage and an impression made on the surface of 0.7% soft agar with the culture under study. After the drops of phage dry, the dishes are incubated for 18 hours. A laboratory technician should be able to apply phage to 300 to 400 dishes in 3 hours.

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USSR

ZAIROV, K. S., SEMIOTROCHEV, V. L., CHICHENIN, P. I., MIKHAMEDOV S. M. PULATOV, Ya. G., and LI GVAN KHVA, V. T., Central Asian Scientific Research Antiplague Institute Ministry of Health Uzbek SSR and Uzbek Antiplague Station

"Some Problems of the Spread of El Tor Cholera and Its Prophylactic Measures"

Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 2, 1972, pp 10-14

Abstract: Mild cholera cases and, especially, cholera carriers are not always detected or reported. This is especially true for El Tor cholera, which breaks out in alternating waves, first epidemic, then sporadic. It takes a relatively milder course and is less lethal than ordinary cholera, sometimes resembling a gastrointestinal upset. El Tor vibrios found in water sources in certain areas are lysogenic, in others not. Members of the family and neighborhood of those suffering the disease, particularly preschool children, are often carriers, for a period of about four days after contact. Certain important measures dealing with the sources of infection are suggested: 1) compulsory bacteriological examination of persons arriving from Asian countries 2) Epidemiological examination for cholera for all those suffering gastro-intestinal disturbances 3) development and application of effective methods 1/2



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ZAIROV, K. S., et al., Meditsinskiy Zhurnal Uzbekistana, No 2, 1972, pp 10-14

for curing all forms of cholera 4) setting up various types of installations, ensuring strict sanitary inspection, especially in areas of mass passenger travel.

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Epidemiology

USSR

ZAIROV, K. S., CHICHENIN, P. I., MUKHAMEDOV, S. M., PULATOV, YA. G., LI-GVAN-KHVA, INZHEVATOVA, K. V., ARTYKOV, K. A., and SEREDIN, V. G.

"Methods and Tactics to be Applied in Detecting Local Foci of Cholera"

Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 12, Dec 71, pp 3-7

Abstract: With the appearance of the El Tor variety of cholera, endemic foci of this disease developed in a number of countries in which classical cholera could not take root. The reason for this is the capacity of El Tor vibrios to survive for prolonged periods of time in the human organism and the environment. Local cholera foci came developed in which the circulation of the agent is sustained by a chain of atypical diseases, prolonged carrier state of the vibrios in humans, and possibly transmission of the infection by aquatic organisms. Discovery of the carrier state among persons with diseases of the bile secretion system led A. G. Nikonov (1960) to the conclusion that cholera vibrios may be retained for a long time in the gall bladder. He proved the correctness of this conclusion experimentally. During the recent cholera pandemic, vibrios were detected more frequently in the gall bladder. In cases of El Tor cholera, which is caused by hemolytic varieties of the microorganism, it is advisable to determine the titer of untibodies with reference to the hemolytic enzyme found in the supermatant liquid of

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ZAIROV, K. S., et al., Meditsinskiy Zhurnal Uzbekistana, No 12, Dec 71, pp 3-7

of meat broth cultures. The complement fixation reaction, which has been used as an immunological test for cholera in Russia since 1909, has been forgotten for inadequate reasons. The very small amount of cholera vibrios present in the stool of cholera patients and vibrio carriers can be detected by means of suspended antibodies, among which alizarin, indanthrone, and anthragallo antibodies are used most frequently. Concentration of cholera vibrios on membrane filters follows by supplementary cultivation (Ye. V. Chibrikova, 1960, 1962) made it possible to increase greatly the sensitivity of the immunofluorescence method of detection. A. K. Adamov et al (1969) isolated El Tro vibrios from fish caught in rivers of Turkmenia. According to results obtained by the authors of this article, cholera vibrios may be detected in the intestine of fish even when tests on the water in which the fish have been caught are negative. Testing of fish is therefore recommended as a method for the detection of latent foci of cholera in bodies of water.

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DYATIOV, A. I., MUKHAMEDOV, S. M., RIVKUS, Yu. Z., Uzbek Antiplague Station

"Natural Foci of Plague in Uzbekistan"

Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 4, 1971, pp 31-33

Abstract: Plague epizootics have regularly been observed in the northern and northwestern parts of the Kyzyl Kum desert in the Uzbek SSR. This region should be regarded as enzootic for plague bacteria, which are continuously being passed from one rodent to another by fleas. In other territories of the republic to the south, plague epizootics were always observed following development in principal foci, and were due to transfer of microbes in jumps over considerable distances, at times by infected wild animals. The occurrence of a focus is affected to a great extent by the number of carriers, their annual and seasonal dynamics, by climate and topography, as well as by conditions of different years. An intense epizootic flared up in Kyzyi Kum in 1969 after a four-year interval, an independent local epizootic focus occurred in 1964 in the Amu-Dar'ya delta (north Kyzyl Kum) after a 9-year interval, and a year later, after a similar interval, in a neighboring sector. Such sudden reactivations of plague foci are related to natural factors, revealing a certain independence of epizootic development. The results of the investigation demonstrate that the plague epizootic process in Kyzyl Kum is very active, necessitating systematic observation and study of particularly dangerous areas.

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Epidemiology

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CHICHENIN, P. I., MUKHAMEDOV, S. M., SEREDIN, V. G., INZHEVATOVA, M. V., and LI GVAN KHVA, V. T.

"Contribution to the Taxonomy of El Tor Vibrios"

Tashkent, Meditsinskiy Zhurnal Uzbekistana, ... 9, Sep 70, pp 42-46

Abstract: During the last 50 years, no agreement has been reached on the true cholera vibrio. Feeley, who studied 220 strains, divided them into five biotypes. However, since all were true cholera vibrios, he regarded the division into the classic cholera vibrios and the El Tor vibrios as invalid. The classification into lysogenic and nonlysogenic strains does not correspond to their virulence. The varying susceptibility of the vibrios to bacteriophages facilitated determination of the geographic distribution of lysogenic El Tor vibrios. Since no classification has been officially approved, it is apparent that there is only one cholera pathogen: Vibrio cholerae. The dissimilarities among its variants lie within the limits of genus variability. They all have one common property: they cause cholera in man. Vaccines made with the classic cholera vibrios are effective against El Tor vibrios. In addition to the dissimilarities, there are some biological dissimilarities between classical and El Tor vibrios. The El Tor vibrios survive longer in the external environment, especially in

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CHICHENIN, P. I., et al, Meditsinskiy Churnal Uzoekistana, No 9, Sep 70. pp 42-46

water, and are more resistant to antibiotics. Contrary to the classic type, they are all prototrophic. The great vitality of the El Tor vibrios is manifested by their interaction with the classic type in vitro and in vivo. However, no explanation has yet been found for the fact that the El Tor cholera which developed in India in March-April 1964 almost completely displaced the classic cholera. Teople can carry El Tor vibrios for many years. The ability to produce endemic four is greater for the El Tor than for classic vibrios. Staple endemic situations induced by El Tor vibrios have recently been observed in the Philippines, Vietnam, Thailand, and Indonesia.

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SEREDIN, V. G., CHICHENIN, P. I., MUKHAMEDOV, S. M., and INSSEVATORA,

"The Problem of the El Tor Vibrios"

Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 1, 1970, pp 3-7

Abstract: In recent years, cholera has been caused mainly by the El Tro vibrio. It was first discovered in pilgrims toward the end of the 19th Century in the El Tor Quarantine Station on the Sinai Peninsula. In 1905, when mortality from dysentery increased among pilgrims quarantined at the El Tor Station, Gotschild was sent there to investigate the possible presence of cholera vibrios among the pilgrims. From 107 cadavers, he isolated 33 vibrio strains, identifying six as cholera vibrios, since they were identical with cholera vibrios in all aspects and were agglutinated by anticholera serum. However, both groups were able to produce true hemolysis in goat and sheep erythrocytes. They contained a hemotoxin and exotoxin which are characteristic of the non-cholera Nasik vibrios. Furthermore, their antitoxic sera caused cross neutralization but no cross agglutination. For these reasons, the El Tor vibrios were not regarded 1/3

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SEREDIN, V. G., et al., Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 1, 1970, pp 3-7

as cholera-producing. However, most Russian scientists, especially those who worked during the 1908-1909 cholors epidemic in Petersburg, were of a different opinion. They found that with diminishing enzymatic activity, the strains would lose their hemolytic ability. By 1938, the number of identified strains of El Tro vibrios increased to 50. Doorenbos considered them to be chologra-producing vibrios affected by phages. The first cholera outbreak caused by EL Tor vibrios was recorded in 1937 on Sulavesi Island, and the second outbreak, caused by hemolytic vibrios, was recorded in 1943 in India. This gave rise to a polemic about the exact definition of true cholera vibrios, and was followed by extensive investigations of various strains with regard to their morphological, biological, biochemical, serological, and cultural properties. Munerous tests were developed which revealed, among other things, that the hemolytic ability of the vibrios was variable and perishable. As a result, the El Tor vibrios were divided into three groups; constantly hemolytic, constantly nonhemolytic, and weakly hemolytic, even though hemolysin is not essential in the pathogenesis of cholora. 2/3 ...

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SEREDIN, V. G., et al., Tashkent, Meditsinskiy Zhurnal Uzbekistana, no L, 1970, pp 3-7

Nobechi isolated strains of the classic cholera vibrios, which were resistant to Mukerjee phage IV. These strains were called intermediate. It was concluded that El Tor vibrios, both pathogenic and non-pathogenic, alos occupy an intermediate phylogenetic position and are the predecessors of classical cholera strains.

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UNCLASSIFIED 1/2 009 PROCESSING DATE--30DCT70 TITLE--PHOTOELECTROCOLORIMETRIC DETERMINATION OF ACETYLCHOLINE IN BLOOD

AUTHOR-MUKHAHEDSHIN, R.I.

SOURCE-LAB. DELO 1970, (3), 183-4

DATE PUBLISHED----70

COUNTRY OF INFO-USSR

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-ACETYLCHOLINE, SPECTROPHOTOMETRIC ANALYSIS

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--2000/0182

STEP NO--UR/9099/70/000/003/0183/0184

CIRC ACCESSION NO--AP0123953

UNCLASSIFIED.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

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SPECTROPHOTOMETRIC METHOD (ABSTRACT. A NEW MODIFICATION OF THE FOR THE DETN. OF ACETYLCHOLINE ICF. 0. V. SKII (1967)) IN I ML OF BLOOD WAS DESCRIBED. MED. INST., ANDIZHAN, USSE.	
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UNCLASSIFIED PRUCESSING DATE--LENOV70 TITLE--INTERFERENCE KILLING FEATURE OF AN AUTOCORRELATION RECEIVER IN 1/2 039 CORRELATED AND UNCORRELATED INTERFERENCE -U+ AUTHOR-(03)-VOKONIN, V.I., DUNAYEV, A.S., MUKHAMEDYAROV, R.D. COUNTRY OF INFO--USSR SOURCE--LININGRAD, OPTIKO MEKHANICHESKAYA PROMYSHLENNOST', NO 1, 1970, PP 20-24 DATE PUBLISHED-----70 SUBJECT AREAS--ELECTRONICS AND ELECTRICAL ENGR., NAVIGATION TOPIC TAGS--INTERFERENCE REDUCTION, AUTOCORRELATION FUNCTION, SIGNAL PROCESSING, DATA TRANSMISSION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/1346

STEP NU--UR/0237/70/000/001/0020/0024

CIRC ACCESSION NO--AP0123304

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OF CORRELATED AND UNCORRELA	ATED INTERFERENCE.		
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USSR

UDE 621.762.002.5(088.8)

MEL'NIKOV, V. N., TRET'YAKOV, V. I., YEMEL'YANOVA, M. D., MUKHAMEDZHANOV, A. K., KAMENSKAYA, D. S., MORGUN, G. N., CHAVRIKOV, M. G., and GRACHEV, Yu. S.

"Rotating Electrical Furnace for Production of Metallic Powders"

USSR Author's Certificate No 267823, Filed 23/06/66, Published 23/07/70 (Translated from Referativnyy Zhurnal-Metallurgiya, No 2, 1971, Abstract No 2 G477 P)

Translation: The furnace includes a hopper, loading and unloading chambers with worms, a body, rotating tube, and a device for removal of the layer of powder accumulating on the surface of the tube. In order to increase productivity of the process and improve working conditions, the device for removal of the powder layer from the surface of the tube is firmly fastened in the working space of the tube so that its leading edge is located parallel to its axis and its working face is at an angle to the radius. The device is attached to parts of the loading and unloading chambers.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

172 037 TITLE-NATURE OF SEISMIC ECHO ON THE MOON -U-

UNCLASSIFIED

PROCESSING DATE--13NOV70

AUTHOR-MUKHAMEDZHANOV, A.K.

COUNTRY OF INFO--USSR

SOURCE-PRIOROGA, NO. 3, 1970, P. 74-75

DATE PUBLISHED----70

SUBJECT AREAS-ASTRONOMY, ASTROPHYSICS, EARTH SCIENCES AND OCEANOGRAPHY

TUPIC TAGS--LUNAR SURFACE, HYPERVELOCITY IMPACT, METEGRITE, SEISMIC REFLECTION, HARD LANDING

CENTROL MARKING-NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1991/0873

STEP NO--UR/0026/70/000/003/0074/0075

CIRC ACCESSION NO--APOL10594

UNCENSSIFIED

2/2 037	UNCLASSIFIED	PROCESS	ING DATE	L3N0V70
CIRC ACCESSION NOAPOL	10594		•	
ABSTRACT/EXTRACT(U) G	P-O- ABSTRACT. DI	SCUSSION OF POS	SSIBLE CAUS	ES OF
THE EXCESSIVELY LONG	SEISMIC ECHO PRODUC	ED BY THE IMPAC	OT OF THE	en C
JETTISONED APOLLO 12 : MULTICASCADE SCATTER!!	SHIVE STAGE AT THE	CONTRACTED TE	EMPACE AS	Or .
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IT IS MAINTAINED THAT	THIS THEORY EXPLAT	NS WELL, BUTH	DUALITATIVE	LY AND
QUANTITATIVELY, THE BI	HAVIOR OF SEISHIC	ECHO ON THE MOD	IN.	•
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Nuclear Science and Technology

USSR

UDC 666.764.4:543.53

MUKHALEDSHINA, N. M., and YANKOVSKIY, A. V., Institute of Nuclear Physics of the Academy of Sciences UzbekSSR

"Determination of Admixtures in Graphite by the Neutron-Activation Method"

Moscow, Zavodskaya Laboratoriya, Vol 38, No 9, 1972, pp 1099-1101

Abstract: The experimental method of neutron-activation enalysis was applied for the determination of Al, Si, Na, Ng, Nn, Cu, Fe, Cr, Sc, and Sb admixtures in natural graphite. Depending on the nuclear-physical properties of the admixtures, neutrons of a water-moderated water-cooled reactor (VVR-S) and high-speed neutrons of 14 Nev energy of the NG-200 generator were used for their determination. Gemma spectra of graphite were taken with single-channel and multi-channel scintillation gamma-spectrometers after 4 and 20 min, 3 and 21 hrs, and 30 days of irradiation. Tabulated results show percentages of the admixtures, their sensitivity, and their relative mean square error, calculated from results of five parallel determinations. The latter did not exceed 12%. Three figures, one table, six bibliographic references. 1/1

USSR

UDC 631.859.13.546.47

MUKHAMEDZHANOV, M., KHAKIMOVA, V. K., and VISHNYAKOVA, A. A., Institute of Chemistry, Academy of Sciences Uz. SSR

"Behavior of the Trace Element Zinc During the Production of Ammophos"

Tashkent, Uzbekskiy Khimicheskiy Zhurnal, No 2, 1971, pp 15-16

Abstract: The composition of zinc salts in ammophos bulk was studied by mixing phosphoric acid with zinc sulfate followed by addition of ammonia. It was found that prior to addition of ammonia no reaction took place in the mixture. When ammonia was bubbled in, again no reaction was observed up to pH 2.4. In the range 2.4-3.5 some reaction occurred producing small amounts of $\text{Zn}(\text{H}_2\text{PO}_4)_2$. Only when the pH was increased to above 3.5, solid phase began to appear in the mixture. A product with the formula ZnNH_4PO_4 was isolated. Presumably this material was formed in the ammophos due to the microadmixtures of zinc.

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CHEMICAL ABST. 5/70

CHEMICAL ABST. 5/70

Alignory

Toganic liquids at low temperatures.

Brykov, V. P.; Minkhame:

divance Co. Sh.; Usmanov, A. C. (Khim. Tekhnol Pherailly

Story, Asaan, UssR).

A device is constructed for the detn. of the thermal condi., \(\lambda\), of ligs. The thermal cond. of Cyls., n-butane, n-nexane, n-hexane, n-leptane, n-octane, n-nonane, n-decane, 1-hexene, 1-heytene, MePh, and isoprene are given from their m.p. to 100° above the m.p. The thermal cond. of these liqs, is described by the equations \(g/\text{Ass} = 2.03 \) (Si-S/R) or \(\lambda\) Si, \(= \psi(S/S_1) \), where \(g/\text{Ass} = \text{relative heat flux; } \(\text{QAS} = \text{scale heat flux, } \text{S and } \text{Si, are current and initial value of entropy and } \(R \) is the universal gas const.

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REEL/FRAME

19801729

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

USSR



UDG 621.375.421

MUKHAMEDZYANOV, M. S.

"Problem of Comparing the Amplifying Characteristics of One-Loop and Two-Loop Cascades of Wideband Transistor Amplifiers"

Sb. nauch. tr. Uralskiy elektromekhan. in-t inzh. zh.-d. transp. (Collection of Scientific Works of the Ural Electromechanical Institute of Railroad transportation Engineers), 1970, vyp. 27, pp 77-82 (from RZh-Radiotekhnika, No 9, Sep 70, Abstract No 9D127)

Translation: A comparison is made for the given invariant pass band. A resonance circuit with a series loop in the secondary circuit is selected as the two-loop cascade. The bibliography has one entry.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

USSR

UDC 542.91:547.1'118

RIZPOLOZHENSKIY, N. I., and MUKHAMETOV, F. S., Institute of Organic and Physical Chemistry imeni A. IS. Arbuzov, USBR Academy of Sciences

"First Stage of the Formation of Oxaphospholanols"

Moscow, Izvestiya Akad. Nauk SSSR, Seriya Khimicheskaya, No 1, Jan 72, pp 175-176

Abstract: As a confirmation (of the first stage) of their earlier proposed scheme representing the reaction between diacetone alcohol with the phosphoryl dichlorides (trivalent phosphorus), the authors used the infrared method to study the interaction of \$\beta\$-acetylethyl alcohol with alkyldichlorophosphates in the presence of triethylasine, which produced alkyl-di-(\$\gamma\$-keto-butyl) phosphites. Analytical data and infrared chart accompany the paper.

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WDC 542.91:547.1'118

Organic and Physical Chemistry imeni A. YE. Arbuzov, US\$R Academy of Sciences

"Reactions of Keto-Alcohols with Organophosphorus Compounds. 6. Reaction Between B-Keto-alcohols and Phosphorodichlorides"

Moscow, Izvestiya Akad. Nauk SSSR, Seriya Khimicheskaya, No 1, Jan 72, pp 72-78

Abstract: Reactions between the keto-alcohols and the phosphorodichlorides have occupied several study groups in the past three years; however, the control of the phosphorus component during the reaction with the use of infrared microscopy has proved difficult.

The authors undertook control using the nuclear-magnetic-resonance P³¹ method, in the reaction between discetone and \(\begin{align*} \beta - ace to ethyl alcohols with phenyldichlorophosphine. \end{align*}

The five-stage character of the reaction was clearly confirmed (reported earlier by B. A. ARBUZOV eta al),

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

USSR

UDC 542.91,661,718.1

MUKHAMETOV. F. S., RIZPOLOZHENSKIY, N. I., and GOL'DFARB, E. I., Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Academy of Sciences USSR

"Reactions of Ketoalcohols with Organophosphorus Compounds. 5 Communication. Reaction of β -Ketoalcohols with Chlorophosphines"

Moscow, Izvestiya Akademii Nauk SSSRm Seriya Khimicheskaya, No 10, Oct 71, pp 2221-2225

Abstract: Reaction of -ketoalcohols (I) with chlorophosphines (II) in the absence of organic bases yields tertiary phosphine oxides: ethylphenyl-phosphine chloride and -acetoethyl alcohol give 3-ketobutylethylphenyl-phosphine oxide, b.p. 135-137 /0.015 mm, np 1.5395, dp 1.1107. The

reaction was monitored by means of IR spectroscopy. On the basis of spectral analysis it was proposed that the first step in the reaction of Aketoalcohols with chlorophpsphines is the formation of an acid R'R"P(10)H and an unsaturated ketone R"'R"C:CHC(10)CH3 which then combine to yield the final product.

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UDC 542.91 + 661.718.1

ARBUZOV, B. A., RIZPOLCZHENSKIY, N. I., VIZEL, A. O., IVANOVSKAYA, K. M., MUKHAMETOV, F. S., and GOL'DFARB, E. I., Institute of Crganic and Physical Chemistry imeni A. Ye., Arbuzov, Acad. Sc. USSR

"Synthetic Routes of 1,2-Oxaphospholene Derivatives in the Reaction of \$\beta\$-Ketoalcohols With Acid Chlorides of Trivalent Phosphorus Acids"

Moscow, Izvestiya Akademii Nauk, SSSR, Seriya Khimicheskaya, No 1, Jan 71, pp 117-125

Abstract: In studying the reaction of \$\beta\$-ketoalcohols with acid chlorides of trivalent phosphorus acid, a series of 1,2-oxaphospholene derivatives was obtained. The reaction took place in several definitely marked stages. For example, dropwise addition of phenyldichlorophosphine to cooled diacetone alcohol resulted in an initial exothermic reaction producing a precipitate; the liquid portion becoming yellow, and an odor of mesitylene oxide becoming noticeable. The second half of the process occurred slowly, the precipitate disappeared, the reaction mixture becoming again almost colorless. When the volatile pro-

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USSR

ARBUZOV, B. A., et al., Izvestiya Akademii Nauk SSSR, Seriya Khimi-cheskaya, No 1, Jan 71, pp 117-125

ducts were removed, the reaction mixture crystallized, and finally liquefied again on distillation. A five stage mechanism has been proposed for this reaction: the first stage consisting of an alcoholysis of acyl chloride leading to the formation of an acid which then reacts with more starting material to produce a new acyl chloride, a very reactive compound which adds rapidly to the unsaturated ketone formed in the first stage to yield a ketochloride RF(:0)Cl-CR2CH2CCCH3 which isomerizes to 1,2-oxaphospholane. In the final step a molecule of HCL are not conjugated yielding 1,2-oxaphospholene.

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USSR

WDC: 542.91+661.718.1.

HIZPOLOZHENSKIY, N. I., MUKHAMETOV, F. S., Institute of Organic and Physical Chemistry im A. Ye. Arbuzov, Academy of Sciences: USSR

*Reactions of Ketoalcohols with Organophosphorus Compounds. Communication 4. Synthesis of gamma-Ketophosphonale Esters"

Moscow, Izvestiya Akademiyi Nauk SSSR, Seriya Khimicheskaya, No 5, May 70, pp 1087-1092

Abstract: It was found that on heating trialkyl phosphites with 3-ketobutanol to 140-160° in presence of metallic sodium, a good yield of the esters of gamma-ketophosphonic acids is obtained

The above reaction takes place also without catalyst when the temperature is raised and the time prolonged. The authors studied the reaction of 3-keto-butanol with trialkyl phosphites; the reaction of 3-ketobutanol with phosphonites and phosphinites; and the hydrolysis of diethyl gamma-ketobutylphosphonate. It was found that trialkyl(aryl) phosphites and phosphonites react with 1/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

USSR

RIZPOLOZHENSKIY, N. I., et al, Izvestiya Akademiyi Nauk SSSR. Seriya Khimicheskaya. No 5. May 70. pp 1087-1092

3-ketobutanol with formation of the esters of gamma-ketobutyl-phosphonic and phosphinic acids, and the phosphinites -- with formation of tertiary phosphine oxides.

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1/2 026 UNCLASSIFIED PROCESSING DATE--300CT70

TITLE--REACTION OF BETA ACETOISOPROPYL ALCOHOL WITH

AUTHOR-(02)-MUKHAMETOV, F.S., RIZPOLOZHENSKIY, N.I.

CCUNTRY OF INFO--USSR

- 20 L

SDURCE--AKAD. NAUK SSSR, SER. KHIM. 1970, (2), 499

DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--PROPANCL, CHLORINATED ORGANIC COMPOUND, ORGANIC PHOSPHORUS COMPOUND, IR SPECTRUM, NMR SPECTRUM

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0835

STEP NO--UR/0062/70/000/002/0499/0499

CIRC ACCESSION NO--APOL19739

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

ABSTRACT/EXTRACT(U) GP-0- ABSTRACT. ADDING 21.6 G ETPHPCL AT MINUS15DEGREES UNDER CO SUB2 TO 12.8 G ACCH SUB2 CHMEOH (HCL EVOLUTION) GAVE ON THE FOLLOWING DAY 45PERCENT ETPHP(O) CHMECH SUB2 AC. B SUB0				
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1/2 013 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE-REACTIONS OF OXAPHOSPHOLANOLS WITH PHOSPHORUS ACID MONOCHLORIDES

AUTHOR-(03)-RIZPOLOZHENSKIY, N.I., MUKHAMETOV. F.S., GOLDFARB, E.I.

COUNTRY OF INFO-USSR

SOURCE-IZV. AKAD. NAUK SSSR, SER. KHIM. 1970, (3), 683-9

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS-HETEROCYCLIC BASE COMPOUND, ORGANIC PHOSPHORUS COMPOUND, ORGANIC OXIDE

CONTROL MARKING-NO RESTRICTIONS .

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/1760

STEP NO-UR/0062/70/000/003/0683/0685

CIRC ACCESSION NO--AP0123561

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

UNCLASSIFIED

PROCESSING DATE—300CT70

CIRC ACCESSIGN ND—APO123561

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1/2 013 UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--REACTIONS OF OXAPHOSPHOLANOLS WITH DIALKYL CHLOROPHOSPHITES -U-

AUTHOR-(03)-RIZPOLOZHENSKIY, N.I., MUKHAMETOV, F.S., GOLDFARB, E.I.

COUNTRY OF INFO--USSR

SOURCE--IZVESTIYA AKADEMII NAUK SSSR, SERIYA KHIMICHESKAYA, 1970, NR 3, PP 683-685 DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--HETEROCYCLIC BASE COMPOUND, ORGANIC PHOSPHORUS COMPOUND, ALKYL PHOSPHITE, HETEROCYCLIC OXYGEN COMPOUND

CONTROL MARKING--NO RESTRICTIONS

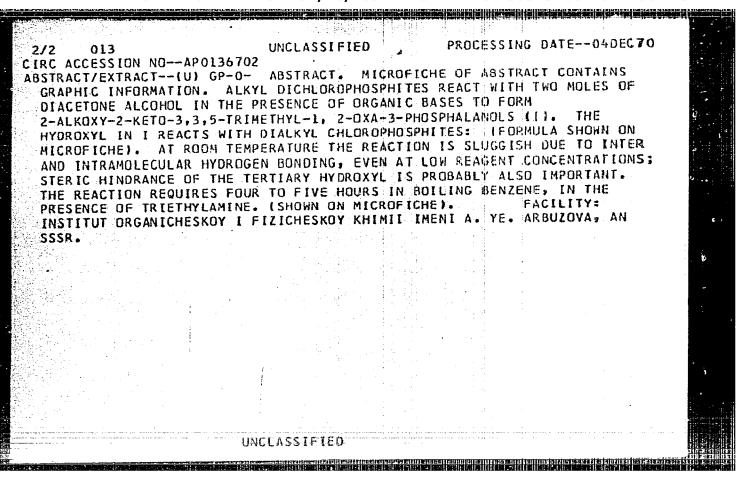
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/1301

STEP NO--UR/0062/70/000/003/0683/0685

CIRC ACCESSION NO--APO136702

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"



UDC 542.91 + 661.718.1

MUKHAMETOV, F. S., and RIZPOLOZHENSKIY, N. I., Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Academy of Sciences USSR

"Interaction of β -Acetoisopropyl Alcohol With Ethylphenylchlorophosphine"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 2, Feb 70, p 499

Abstract: In studying the reaction of ketols with different organophosphorus compounds, the authors found that the interaction of ethylphenylchlorophosphine with β -acetoisopropyl alcohol gives ethylphenyl-(1-methyl-3-ketobutyl) phosphine oxide.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

M UDC 542.938 + 661.718.1

RIZPOLOZHENSKIY, N. I., MUKHAMETOV, F. S., and SAMITOV, YU. YU., Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Kazan, Academy of Sciences USSR

"Hydrolysis of Oxaphospholanols"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskava, Vol 4, Apr 70, pp 910-912

Abstract: On the basis of proton magnetic resonance spectral analysis, the authors claim that acid hydrolysis of 2-alkoxy-2-keto-3,5,5trimethyl-1,2-oxaphospholanol-3 occurs with preservation of cyclic structure, yielding 2-hydroxy-2-keto-3,5,5-trimethyl-1,2-oxaphospholene-3. When the reaction is carried out in basic medium, 2-ethyl-2keto-3,5,5-trimethyl-1,2-oxaphospholanol-3 yields ethyl-(1,3-dihydroxy-1,3-dimethylbutyl)-phosphinic acid.

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USSR

WC 539.124.547.1'118.541.57.546.11

SHAGIDULLIN, R. R., CHERNOVA, A. V., MUKHADETON F. S., RIZPOLOZHENSKIY, N. I., Institute of Organic and Physical Chemistry imeni A, Ye. Arbuzov of the USSR Academy of Sciences

"Study of Electron Effects in a Series of 2-substituted exaphospholanoles-3 by the H-Bond Method"

Moscow, Izvestiya Akdemii Nauk SSSR- Seriya Khimicheskaya, No 11, 1972, pp 2585-2587

Abstract: The studies of the electron structure of phosphorus-containing compounds (R. R. Shagidullin, et al., Izv. AN SSSR. Ser. khim. 1123, 1966; Dokl. AN SSSR. No 173, 135, 1967; R. R. Shagidullin, et al., Izv. AN SSSR. Ser. khim. 183, 1971; R. R. Shagidullin, et al., Izv. All SSSR. Ser. khim., 1168, 1971) are continued by applying the method introduced there to 2-substituted oxyphospholanoles-3. The proximity of the P aton causes a change in the acceptor capacity of the diethylamino group with respect to the proton. The variation in the acceptor capacity is connected with delocalization of the electron cloud of the substitution on the P atom. This phenomenon is explained by partial shifting of the unshared pair of electrodes of the nitrogen atom to the phosphorus.

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CIA-RDP86-00513R002202120012-9"

APPROVED FOR RELEASE: 07/20/2001

UDC 669.71'3.018.9

MUKHAMETOV, M. M.

"Study of Auto-ignition Temperature of Alloys in the System Copper-Aluminum"

Probl. inzh. okhrany truda [Problems of Engineering Protection of Labor -- collection of works] (Moscow Institute of Steels and Alloys, 65), Moscow, 1970, 29-41, (Translated from Referativnyy Zhurnal Metallurgiya, No. 1, 1971, Abstract No.1 3155 by the author).

Translation: Alloys in the Al-Cu system, the surface of which is covered with a film of Al oxides, ignite at temperatures corresponding to the points of recrystallization, weakening of interatomic bonds, phase conversion, and dissociation of one of the elements. 2 figures; 3 tables; 7 biblio. refs.

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Nitrogen Compounds

USSR

UDC 547.292 464+547.415.1 821.3

SVETKIN, Yu. V., MUKHAMETOVA, D. Ya., and KOSYGIN, V. I., Bashkir State University of the 40th Anniversary of the October Revolution

"Synthesis and Some Properties of N.N'-Polymethylene-bis (2-chloroacetamides)"

Leningrad, Zhurnal Organicheskoy Khimii, Vol 7, No 6, Jun 71, pp 1159-1162

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

USSR

SVETKIN, Yu. V., et al, Zhurnal Organicheskoy Khimii, Vol 7, No 6, Jun 71, pp 1159-1162

Cl- ions by the Mohr method. Isolation of compounds III for the determination of Cl in them was not necessary; compounds I were boiled with an excell of pyridine and, on evaporation of the unreacted pyridine, titration of Cl- was carried out. Titration of Cl- on conversion of Cl-containing pesticides into pyridinium chlorides forms a convenient method for the quantitative determination of these pesticides.

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1/2 021 UNCLASSIFIED

PROCESSING UATE-- 20MUY70

TITLE -- SEHAVIOR OF SITKUALKYENITROSAMINES DURING OXIDATION AND HITRATION

AUTHOR-1031-YUKHAMEISHIM, F.M., FRIGMAN, A.L., NIKOLAYEVA, A.S.

COUNTRY OF INFO--USSR

M

SOURCE--2H. CRG. KHIM. 1970, 6(5), 928-9

DATE PUBLISHED ----- 70

SUBJECT ARE, S--CHEMISTRY

TOPIC TAGS--AMINE DERIVATIVE, DXIDATION, NITRATION, SULFURIC ACID, MITRIC ACID, MITRIC ACID, MITRIC

CENTROL MARKING-NO RESTRICTIONS

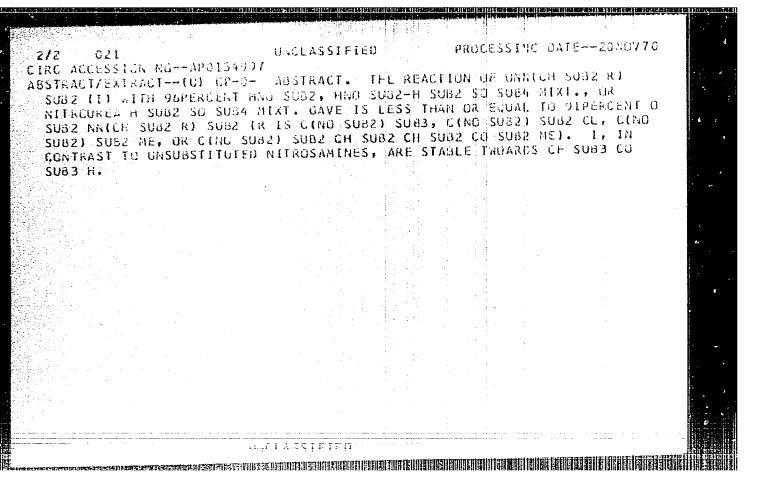
DECUMENT CLASS--UNCLASSIFIED PROXY REFLIERAME--3006/1323

STEP NO--UR/0366/70/006/005/0926/0929

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UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"



1/2 018 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--EFFECT OF THE NATURE OF SUBSTITUENTS ON THE FORMATION OF A

SYDNONIMINE RING -U-AUTHOR-(031-MUKHAMETSHIN, F.M., FRIDMAN, A.L., NIKOLAYEVA, A.D.

COUNTRY OF INFO--USSR

SOURCE--KHIM. GETEROTSIKL. SOEDIN. 1970, (1), 125

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--CHEMICAL SUBSTITUENT, IMINE, ORGANIC NITRO COMPOUND, HETEROCYCLIC BASE COMPOUND, CYANIDE, HYDROLYSIS, CHEMICAL REACTION MECHANISM

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0744

STEP NO--UR/0409/70/000/001/0125/0125

CIRC ACCESSION NO--APOL19651

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

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PROCESSING OATE—300CT70

CIRC ACCESSION NO—APOll9651

ABSTRACT/EXTRACT—(U) GP-0— ABSTRACT. (O SUB2 N) SUB3 CCH SUB2 N(NO)CH

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M. 8B—90DEGREES (DECOMP.). HYDROLYSIS OF LV GAVE (O SUB2 N) SUB3 CCH

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SUB2 NIND)CH SUB2 CO SUB2 ME (V), M. 41—20EGREES, WHICH WAS CONVERTED TO

SUB2 NIND)CH SUB2 CO SUB2 ME (V), M. 41—20EGREES, WHICH WAS CONVERTED TO

SUB2 NIND)CH SUB2 CO SUB2 ME (V), M. 41—20EGREES, WHICH WAS CONVERTED TO

SUB2 NIND)CH SUB2 CO SUB2 ME (V), M. 41—20EGREES, WHICH WAS CONVERTED TO

SUB2 NIND)CH SUB2 CO SUB2 ME (V), M. 41—20EGREES, WHICH WAS CONVERTED TO

SUB2 NIND)CH SUB2 CO SUB2 ME (V), M. 41—20EGREES, WHICH WAS CONVERTED TO

SUB2 NIND)CH SUB2 CO SUB2 ME (V), M. 41—20EGREES, WHICH WAS CONVERTED TO

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SUB2 NIND)CH SUB2 CO SUB2 ME (V), M. 41—20EGREES, WHICH WAS CONVERTED TO

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Therapy

USSR

UDC 616-022.6

MUKHAMETZYANOV, Sh. A., GLANTS, S. A., MAKARON, D. I., and KATS, A. S.

"Hemodialysis in Hemorrhagic Fever With a Renal Syndrome"

Kazan', Kazanskiy Meditsinskiy Zhurnal, No 6, 1971, pp 64-65

Abstract: Of 16 hemorrhagic fever patients admitted to the kidney centers in Kazan' and Chelyabinsk in fair condition with acute renal insufficiency, azotemia, acidosis, hyperhydration, neurologic and cardiovascular disturbances, and (in three cases) meningoencephalitic symptoms, six responded to the standard therapy and regained normal kidney function. The other 10 received as part of the therapy venovenous hemodialysis with an artificial kidney 1 to 5 times. Azotemia decreased markedly, the composition of the plasma salts returned to normal, and kidney function was completely restored in 2 to 12 days. The three patients with the meningoencephalitic syndrome died, despite the initial effectiveness of hemodialysis and elimination of uremic poisoning.

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USSR

UDC 542.91 661.718.1

D'YAKONOVA, H. I., MUKHAMERZYANOVA, E. KH., SHERMERGORN, I. M., Kazan' Institute of Veterinary Medicine imeni N. E. Bauman

"Organophosphorus Compounds with an K-Hydroxyalkyl and a Chloromethyl Radicals"

Leningrad, Zhurnal Obshchey Khimii, Vol 41, No 10, 1971, pp 2203-2205

Abstract: In a search for biologically active compounds, a series of phosphine oxides and phosphinates were synthesized, which contained, simultaneously an &-hydroxyalkyl and chloromethyl radicals at the P atom. Bis-(chloromethyl) - &-hydroxyalkyl-phosphine oxides were obtained by the reaction of bis-(chloromethyl)- or (chloromethyl) ethyl-chlorophosphine with aldehydes or ketones and subsequent hydrolysis of intermediate products. Analogous reaction of (chloromethyl)phosphonous dichloride with benzaldehyde gave (chloromethyl)- &-hydroxybenzylphosphinic acid. Methyl (chloromethyl)-&-hydroxyalkylphosphinates were prepared by condensation of methyl (chloromethyl)hydrogenphosphinate with aldehydes. The yields, elemental analysis data, and mo of the l/l products are tabulated and preparation procedures used are given.

UDC 542.91+661.718.1

GILYAZOV, M. M., ZYABLIKOVA, T. A., MUKHAMBEZYANOVA, E. Kh., SHERMERGORN, I. M., Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Academy of Sciences, USSR

"Derivatives of 1,3-Thiaphosphetanes"

Moscow, Izvestiya Akademiyi Nauk SSSR, Seriya Khimicheskaya, No 5, May 70, pp 1177-1180

Abstract: The reaction of the sodium salt of bis(chlormethyl)phosphinic acid with sodium sulfide in aqueous solution in presence of HCl gave a good yield of 3-oxo-3-hydroxy-1.3-thiaphosphetane;

$$(GlCH2)2P$$
 $Old + Na2S $--- S$ $CH2$ P $Old + 3NaCl$$

The produce was easily esterified. Ring cleavage was observed:

$$S \xrightarrow{CH_2} P \xrightarrow{O} CH_2 + C_2H_5OH \xrightarrow{C_2H_5ONa} CH_3SCH_2 - P \xrightarrow{O} (OC_2H_5)_2$$

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

UDC 621.357.8.035.4.669.71

BOGOYAZIENSKIY, A. F., and MUKHAMEZYANOVA, L. N.

"A Study of the Properties of Anode Aluminum Oxides Obtained From the Salicylic-Oxalic Acid Electrolyte Using Tracer Techniques"

Tr. Kazan. aviats. in-ta (Works of the Kazan Aviation Institute) Vyp 148, 1972, pp 7-9 (from Referativnyy Zhurnal -- Khimiya, No 8(II), 1973, Abstract

Translation: The results are described for a study of the properties of the anode aluminum oxides obtained from the sulfosalicyl-oxalic acid electrolyte using tracer techniques. It was shown that the introduction of the sulfosalicylate ions into one of series is less than that of the oxalate ions. The introduction of the sulfosalicylate ions increases when the alloy metls DT-16 and AMGZ were used.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

USSR

TDC 576.895.4(575.3)

MUKHAMMADKULOV, M., Institute of Zoology and Parasitology imeni Academician It. M. Pavlovskiy, Academy of Sciences Tadzhik SSR

"Wild Birds as Hosts of Argasid and Ixodid Ticks in Northern Tadzhikstan"

Dushanbe, Izvestiya Akademii Nauk Tadzhikskoy SSR, Otdeleniye Biologicheskikh Nauk, No 3(40), 1970, pp 87-89

Abstract: In May-July 1969, 281 wild birds of 56 species were shot down in the Isfara region of Northern Tadzhikstan and examined for the presence of Argasid and Ixodes ticks. Only birds of nine species were found to harbor ticks of either subfamily. The ticks, which were all in pre-imago stages, apparently because of the season and mountainous nature of the country, belonged to three species only: Argas persicus (I), Ixodes crenulatus (II), and Hyalomma plumbeum turanicum (III). The species of birds on which the ticks were found and the species of ticks on them were as follows: Dendrocopus bucotos - II; Lanius cristatus - II; Muscicapa striata - III; Sitta tephranota - I, Petronia petronia - I, II; Phoenicurus ochrurus - III; Oenanthe isabellina - I; Pastor roseus - III; Acridothores tristis - II.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120012-9"

UDC 621.9.048.4:669.018.25

MUKHANOV, I. I., FILIMONENKO, V. N. and PIVOVAROV, B. Kh., Novosibirsk

"Physical and Mechanical Condition of the Surface Layer of Hard Alloy Products After Electric Spark Treatment"

Kiev, Fiziko-Khimicheskaya Mekhanika Materialov, Vol 6, No 6, 1970, pp 3-6

Abstract: Results are presented from a study of the physical and mechanical state of the surface layer of hard alloy products made of alloys in group mode. A metallographic study of the surface layer after electric spark treatment showed that there was a fused layer present, which arises even two zones. The upper zone has a finely dispersed structure, resulting from tangeten carbide.

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TITLE-COMPLEXING OF COPPER, II WITH 2, HYDROXYETHYL, IMINO, DIACETIC ACID -U-

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AUTHOR-(02)-KCRNEV. V.I., MUKANOV, I.P.

COUNTRY OF INFO--USSR

SOURCE--24. NEORG. KHIM. 1970, 15(41, 1000-2)

DATE PUBLISHED ---- 70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS-COPPER COMPLEX, ORGANOCOPPER COMPOUND, ACETIC ACID, HYDROXYL RADICAL, CHEMICAL STABILITY

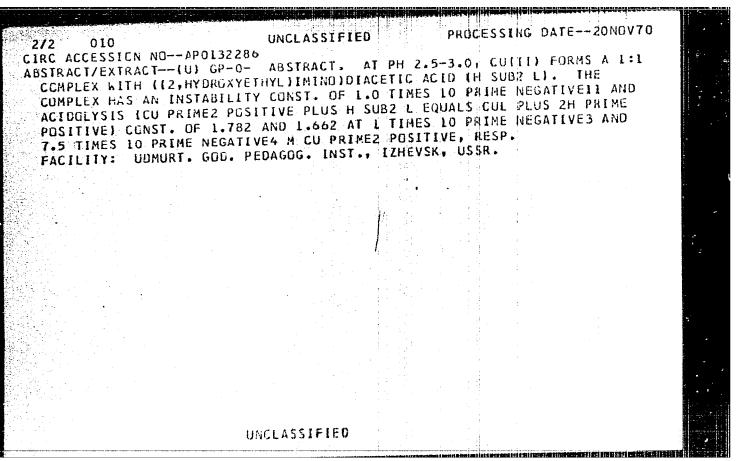
CENTREL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/2029

STEP NO--UR/0078/70/015/004/1000/1002

CIRC ACCESSION NO--AP0132286

UNCLASSIFIED



1/2 021 UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--CERTAIN FORMS OF DEFECTS IN PRESSINGS URIGINATING FROM CASTING -U-

AUTHOR-(02)-TRUSOV, V.A., MUKHANOV, V.D.

COUNTRY OF INFO--USSR

SOURCE--TSVET. NETALLY, FEB. 1970, (2), 59-60

DATE PUBLISHED----70

SUBJECT AREAS-MATERIALS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--METAL CASTING, COPPER, TIN ALLOY, ZINC ALLOY, VISUAL DEFECT, CRYSTAL IMPURITY

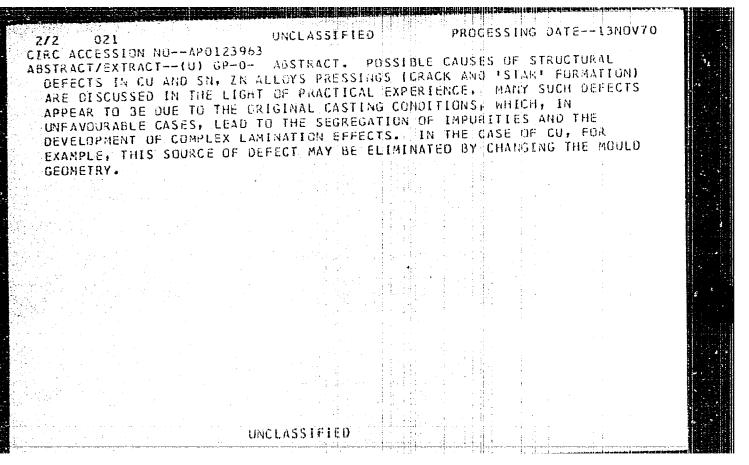
CONTROL MARKING--NO RESTRICTIONS

PROXY RESE/FRAME--2000/0194

STEP NO--UR/0136/70/000/002/0059/0060

CIRC ACCESSION NO--APO123963

UNCLASSIFIED



DDC: 632.95

GVERDTSITELI, I. M., MUKHASHAVRIYA, A. L., TSIRGILADZE, T. V., ADAMIYA, S. V., TALIYA, D. P., TSINTSADZE, E. S., and KAPANADZE, G. G., Institute of Plant Protection, Academy of Sciences, Georgian SSR

"Study of the Toxicity of Certain Organotin Preparations for the European Spruce Bark Beetle (Dendroctonus micans kugel)"

K izucheniyu toksicheskikh svoystv nekotorykh olovoorganicheskikh preparatov protiv bol'shogo yelovogo luboyeda (Dendroctonus micans kugel) (cf. English above), Tbilisi, 1970, 8 pp, bibliogr. 4 titles (from RZh-Khimiya, No 23, 10 Dec 70, Abstract No 23 N726 Dep)

Translation: The toxicity of some new organotin unsaturated alcohols was studied under Georgian conditions. The preparations were effective in controlling the European spruce bark beetle both in the laboratory and in the field.

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